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PATENT

Appl. No. 10/658,823  
Amdt. dated November 27, 2006  
Reply to Office Action of July 25, 2006

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

- 1                    1.-35. (Canceled)
- 1                    36.    (Previously Presented) A method of identifying an inhibitor of a  
2 glycosyltransferase that transfers a monosaccharide from a sugar nucleotide to an acceptor  
3 substrate, the method comprising  
4                    contacting the glycosyltransferase, an acceptor substrate, and a donor substrate  
5 with a hydrophobic, non-carbohydrate test compound that inhibits interaction of a sugar with  
6 hydrophobic amino acids in the active site of the glycosyltransferase and  
7                    determining the degree to which the activity of the glycosyltransferase is inhibited  
8 in the presence of the test compound.
- 1                    37.    (Previously Presented) The method of claim 36, wherein the activity of  
2 the glycosyltransferase is determined using an antibody that is specifically immunoreactive with  
3 a product of the reaction catalyzed by the glycosyltransferase.
- 1                    38.    (Previously Presented) The method of claim 37, which is an ELISA  
2 format.
- 1                    39.    (Previously Presented) The method of claim 36, wherein the  
2 glycosyltransferase is expressed in a recombinant cell.
- 1                    40.    (Previously Presented) The method of claim 36, wherein the donor  
2 substrate or acceptor substrate is labeled.
- 1                    41.    (Withdrawn) The method of claim 40, wherein the label is a radioactive  
2 label.

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1                   42.   (Withdrawn) The method of claim 41, which is a radioactive column  
2 assay.

1                   43.   (Previously Presented) The method of claim 40, wherein the label is a  
2 fluorescent label.

1                   44.   (Previously Presented) The method of claim 36, wherein the  
2 glycosyltransferase is a fucosyltransferase.

1                   45.   (Withdrawn) The method claim 36, wherein the glycosyltransferase is a  
2 sialyltransferase.

1                   46.   (Withdrawn) The method claim 36, wherein the glycosyltransferase is an  
2 *N*-acetylglucosaminyltransferase.

1                   47.   (Canceled) The method of claim 36, wherein the compound comprises an  
2 aromatic or aliphatic ring structure.

1                   48.   (Withdrawn) The method of claim 36, wherein the compound comprises  
2 an aryl moiety.

1                   49.   (Previously Presented) The method claim 36, wherein the compound  
2 comprises a heteroaryl moiety.

1                   50.   (Previously Amended) The method of claim 49, wherein the heteroaryl  
2 moiety is selected from the group consisting of a thiophene, pyridine, isoxazole, phthalimide,  
3 pyrazole, indole, quinoline, phenothiazine, carbazole, benzopyranone, and a furan group.

1                   51.   (New) The method of claim 36, wherein the hydrophobic, non-  
2 carbohydrate test compound comprises a member selected from the group consisting of a  
3 heteroaryl moiety having from 5 to 16 ring members wherein from 1 to 3 ring members are each  
4 independently selected from the group consisting of N, O and S wherein the heteroaryl ring

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- 5 structure is optionally substituted, and an aliphatic ring structure having from 3 to 7 ring  
6 members and is optionally substituted.